



520.43241X00

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicants: MIYAUCHI et al

Serial No.: 10/695,939

Filed: October 30, 2003

For: Functioning Substrate With A Group Of Columnar  
Micro Pillars And Its Manufacturing Method

Group:

Examiner:

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 CFR 1.97 & 1.98**

Mail Stop: DD  
Commissioner For Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

February 4, 2004

Sir:

In the matter of the above-identified application, applicants are submitting herewith a copy of a communication from a foreign patent office in a counterpart foreign application and copies of the documents listed in the attached form equivalent to Form PTO-1449 for the Examiner's consideration.

This information disclosure statement is being submitted before the mailing date of a first office action on the merits.

To the extent the documents listed on the attached form equivalent to Form PTO-1449 are not in the English language, the requirement of 37 CFR 1.98(a)(3) for a concise explanation of the relevance is satisfied by an English language version or the discussion of these documents in the specification.

It is respectfully requested that this information disclosure statement be considered by the Examiner.

Please charge any shortage in the fees due in connection with the filing of this paper, including extension of time fees, to the deposit account of Antonelli, Terry, Stout & Kraus, LLP, Deposit Account No. 01-2135 (Case: 520.43241X00), and please credit any excess fees to such deposit account.

Respectfully submitted,

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Attachments

FORM PTO-1449 U.S. Department of Commerce  
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ATTY. DOCKET NO.

SERIAL NO.

520.43241X00

10/695,939

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

APPLICANT

MIYAUCHI et al

FILING DATE

October 30, 2003

GROUP

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
					YES NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	New Polymer Materials For Nanoimprinting, H. Schultz, et al 1861-1865, Journal of Vacuum Science Technology B 18(4), Jul/Aug (2000)
	Integrated Microsystem of Thermal Amplification of DNA and Electrophoresis on a Microfabricated Plastic Chip For Detection of Specific Gene and Analysis of Genetic Materials, Micro Total Analysis Systems, 2002, vol. 1, 215-217 U. Baba
	Large Area High Density Quantitized Magnetic Disks Fabricated Using Nanoimprint Lithography, Journal of Vacuum Science Technology, B 16(6) 3825-3829, Nov/Dec 1998, Wei Wu et al
	Sub-10nm Imprint Lithography and Applications, Journal of Vacuum Science Technology B 15(6), 2897-2904, Nov/Dec 1997, Stephen Y. Chou, et al
	DNA Size Separation Employing Microfabricated Monolithic Nano-Structure, Y. Tezuka, et al, Micro Total Analysis Systems (2002), vol. 1, 212-214
	Multichannel Capillary Electrochromatography PMMA Microdevice With Integrated Pulsed Conductivity Detector, Y. Baba et al, Micro Total Analysis Systems 2002
	Fabrication Of Photonic Crystals And Working Of Silicon-nano Pillars Using Metal Clusters, T. Tada, et al Applied Physics, Vol. 71, No. 10 (2002)
	Creation of A Healthcare Chip For The Separation of Minute Quantities of Whole Blood, Y. Horiike, et al HTTP://fed. Or.jp/salon/bio/bio04 horiike.pdf
	Lithographically Induced Self-Assembly Of Periodic Polymer Micro pillar Arrays, Y. Stephen, et al j. Vac. Sci. Technol. B 17(6) Nov/Dec 1999

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.